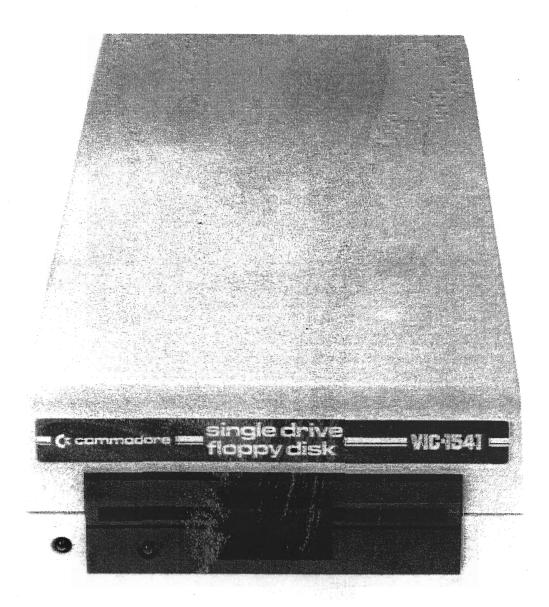
Commodore Single Disk Drive

Technical Manual

Model 1540/1541





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CONTENTS

Chapter 1

- 1.1 Scope
- 1.2 Unpacking
- 1.3 Protection against noise
- 1.4 Input-Output cable
- 1.5 DC power source
- 1.6 Initial inspection
- 1.7 Outline of functions
- 1.8 Read/Write Head
- 1.9 Track positioning mechanism
- 1.10 Spindle drive mechanism
- 1.11 Eject mechanism

Chapter 2

- 2.1 Mechanism explanation
- 2.2 Functional explanation
- 2.3 Assembly proceedure

Chapter 3

- 3.1 Operating proceedure
- 3.2 Media handling proceedure
- 3.3 Seek error
- 3.4 Write error
- 3.5 Read error
- 3.6 Head cleaning
- 3.7 Adjustment proceedure

Chapter One

1.1 Scope

In this chapter, a desciption is made of the proceedures necessary for servicing the Model 1540/1541 Floppy Disk Drive.

1.2 Unpacking

Special care should be exercised during unpacking not to damage the unit.

Unpacking proceedures are as follows:

- a) Remove cardboard sleeve from styro-foam box
- b) Open 'styro-foam' box and remove drive
- c) Check the drives front door for proper operation

*******	*
*	*
* Caution	*
*	*
* Do Not Use Magnetized Tools	*
*	*
********	*

1.3 Protection against noise

A week signal from the media is detected in the head section of the drive. Hence, do not install the drive near a TV set or other areas where electromagnetic noise is generated. (i.e. motors, airconditioners, etc)

1.7 Input/Output Cable

The length of the cable between the host and the drive (between the host and the last drive when the drives are daisy chained) should not exceed 5 meters (16 feet).

1.8 DC power source

The drive is powered by a internal power supply providing the drive with +12V and +5V.

1.9 Initial inspection

The drive can be briefly inspected for its operation by the following proceedure. Install the drive, connect the power and I/O cables. Turn drive on and make sure the front panel power lamp is on. Proceed to step 2.2.

1.10 Outline of functions

The 1540/1541 Minifloppy Disk Drive mechanism is composed of the data read/write head, track positioning mechanism, spindle drive mechanism and eject mechanism.

1.11 Read/Write Head

The Read/Write head uses a glass-bonded, ferrite/ceramic head. Track-to-track erasing is accomplished by the straddle erase method. The surface of the Read/Write head is mirror-ground to minimize weear of the head and media. Also, the head is desighned in such a way that the maximum signal can be obtained from the media surface.

1.12 Track positioning mechanism

Positioning of the Read/Write Head is accomplished by a stepping motor and steel belt. The stepping motor rotates clockwise or counter-clockwise by two steps per track. The control circuit on the logic board selects the direction and number of step to the desired track.

1.13 Spindle drive mechanism

The spindle drive motor operates on 12 VDC and turns the spindle, through a belt drive, at 300 revolutions per minute. The speed of the drive motor is controlled by a feedback signal from a tachometer which is housed in the drive motor assembly. The feedback signal controls a servo amp that supplies the 12 VDC drive current.

1.14 Eject mechanism

When the media is inserted in the Disk Drive and the door is closed the media is clamped by the spindle and hub. At this time the ejector mechanism is loaded by the insertion of the disk and locked. When the door is opened, the ejector mechanism is unlocked and the media pops out of the door.

2.1 Mechanism Explanation

The 1540/1541 mechanism is installed in the system horizontally, however the drive will fuction if mounted vertically. The mechanical parts of the drive include an aluminum chassis, a stepping motor, head positioning assembly, drive motor, a hub and spindle assembly for centering and retaining the media during operation. The magnetic head is of a glass ceramic construction.

2.2 Function explanation

The drive is itself an independent memory device. The drive is composed of a media clamp rotating mechanism, ahead positioning mechanism and an eject mechanism. When the front door opens, the media can be inserted. All positioning operation excluding insertion and removal of the media are controlled by the internal guide mechanism. Closing the front door causes the media clamp mechanism to operate. Two operations are performed in the following order:

- a) The media is centered.
- b) The media is clamped and retained between the spindle and the hub.

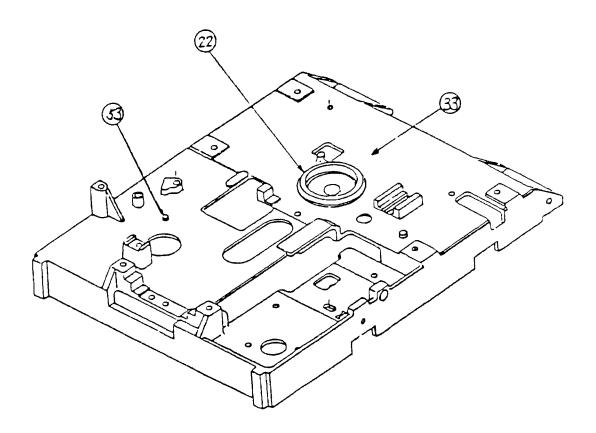
The spindle and hub rotate at 300 r.p.m. through a closed-loop control circuit employing a D.C. motor/tachometer. It is important that the relationship between the head and the media is maintained correctly during operation. For this purpose, a pressure pad is used to hold and press down the media(about 12g) from the opposite side of the head, to maintain the correct contact with the head. This head assembly is coupled by a metal band to a four phase stepping motor the performs the track positioning. One step of the stepping motor corresponds to a 1/2 track movement. Use of a high-speed stepping motor and metal band drive, this series of disk drives can perform access operations at a very high speed.

2.3 Assembly Proceedure

- 2.3.1 The housing assembly; install the eject pin and the spindle.
- 2.3.2 The housing assembly; on the reverse side install the spindle pulley.

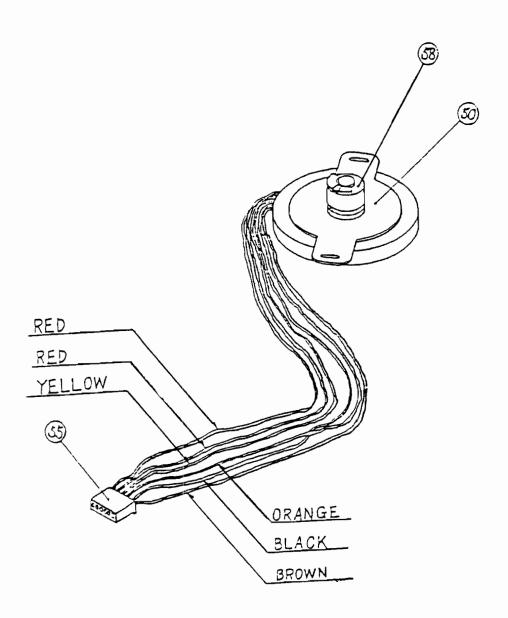
2.3.3 FIG 1, The housing unit.

art	Desciption
22	spindle
33	housing assembly.
53	eject pin



- 2.3.4 The stepping motor assembly; install the stepping pulley.
- 2.3.5 FIG 2, The stepping motor unit

Part	Description
50 55 58	stepping motor assembly connector housing stepper pulley



- 2.3.6 The D.C. motor assembly; install the motor pulley.
- 2.3.7 FIG 3, D.C. motor and control PCB

Part	Description
44 48	motor control PCB D.C. motor
51	connector housing
59	D.C. motor pulley

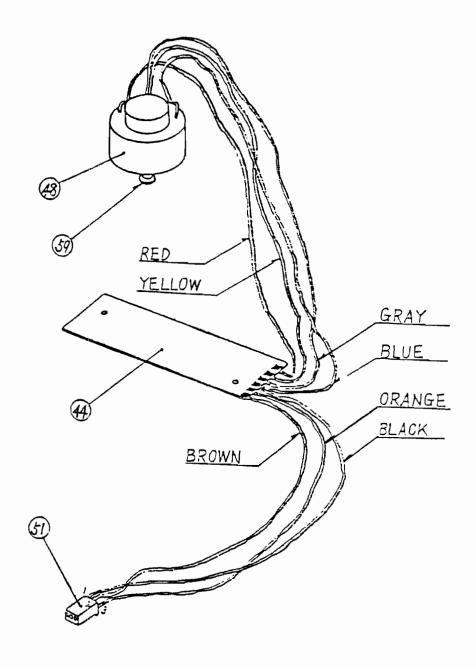
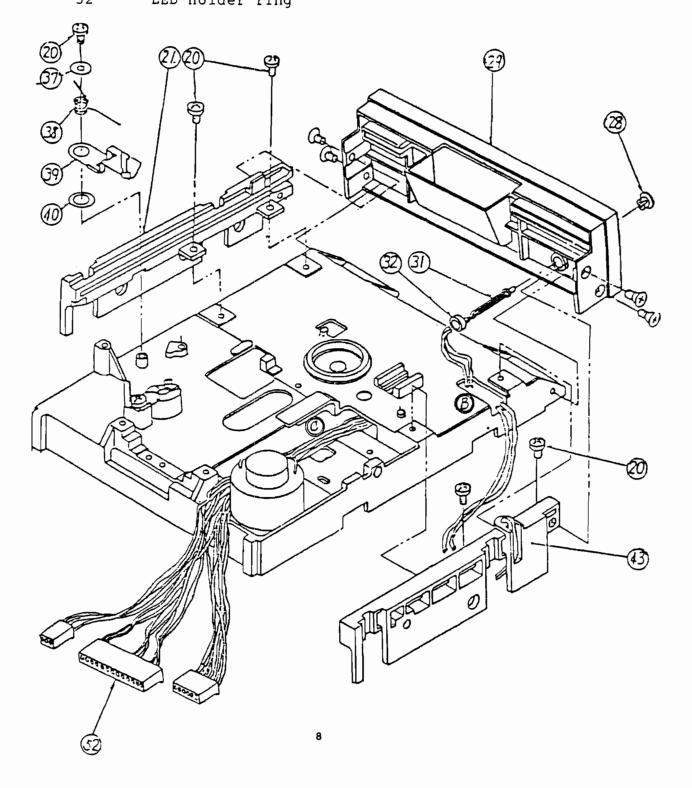


FIG. 6

Part	Description	Part	Description
20	binder screw	37	washer
21	diskette guide	38	eject spring
28	LED clamp	39	eject plate
29	front panel	40	slider
30	Flush screw	43	diskette guide
31	LED assembly	52	connector housing
3.2	IED holder ring		J



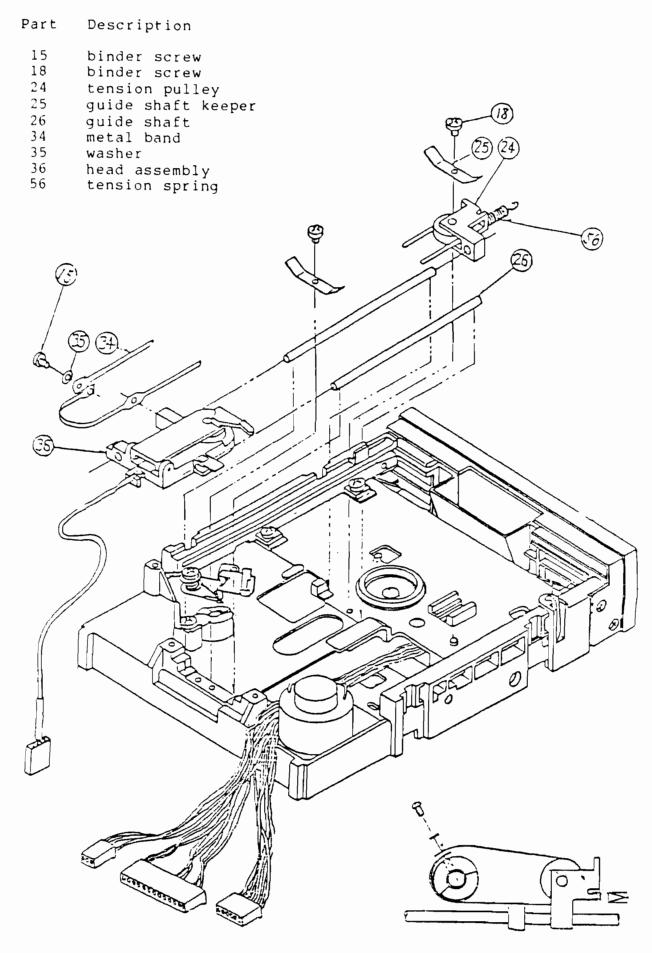
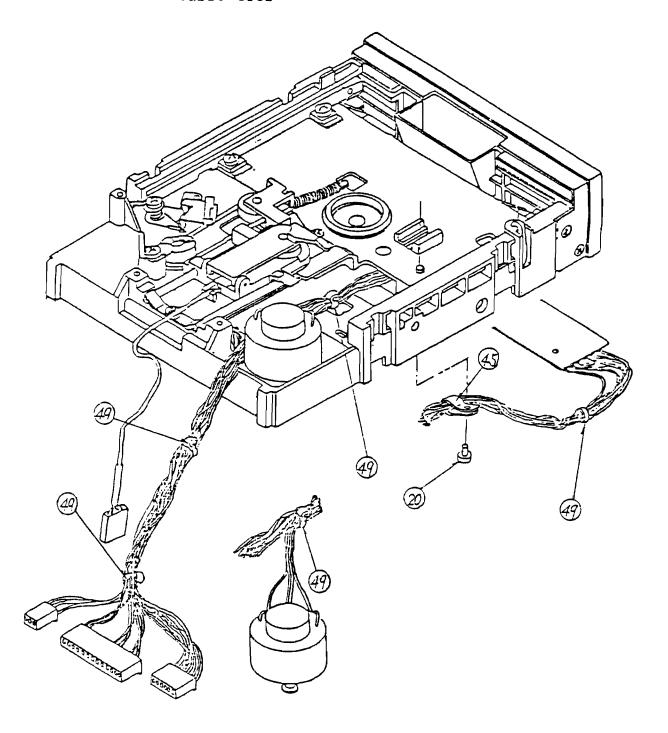
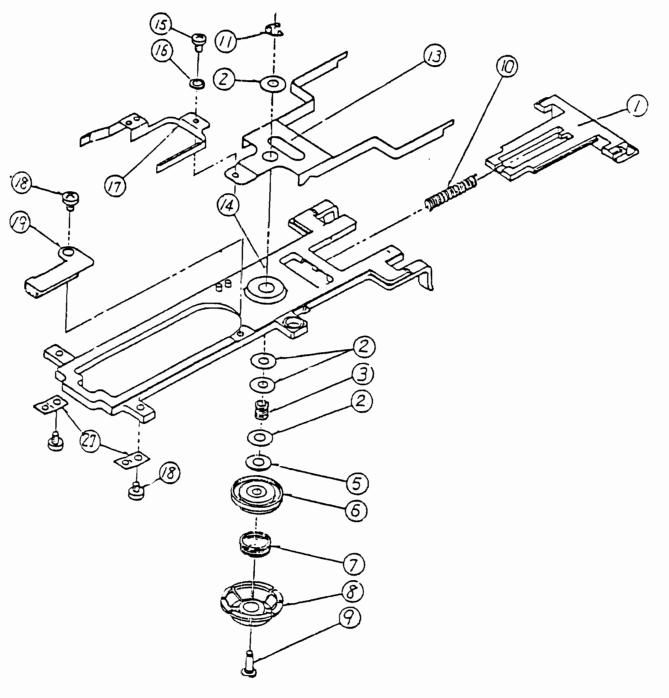


FIG 8

Part	Description
20	binder screw
45	cable clamp
49	cable ties

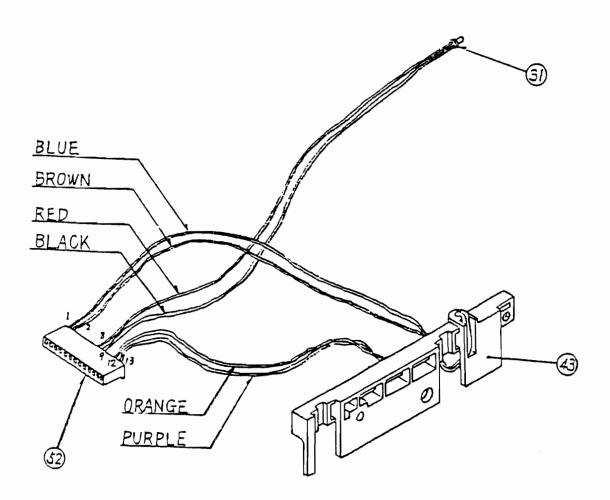


Part	Description	Part	Description
1	door assembly	13	hub support
2	collar	14	hub frame
3	clamp spring	15	binder screw
5	thrust washer	16	spring washer
6	collet assembly	17	arm support assembly
7	hub spring	18	binder screw
8	hub	19	pad plate assembly
9	hub shaft	27	hinge spring
10	door spring	60	collet
11	E-washer	61	collet bearing



2.3.8 FIG. 4, Diskette guide, LED assembly and connector housing.

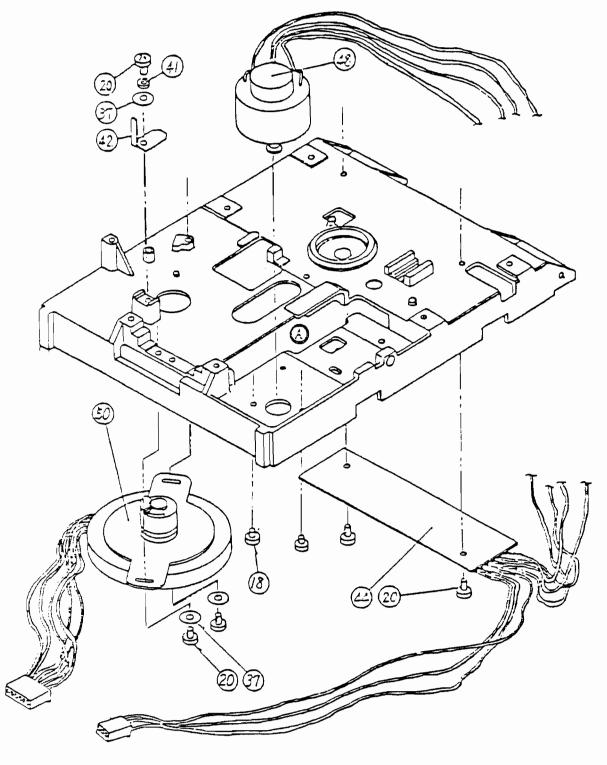
Part	Description
31	LED assembly
43	diskette guide
52	connector housing



- 2.3.9 Secure the D.C. motor from the reverse side of the housing assembly with two screws.
- 2.3.10 Put the motor control PCB into hole 'A' and serure it with two screws.
- 2.3.11 Secure the stepping motor with two screws.
- 2.3.12 Secure the carraiage stopper with a screw.
- 2.3.13 Install the connector housing '52' into the hole 'B' and remove through hole 'C'.
- 2.3.14 Sercure the two diskette guides '21' and '43' with two screws each.
- 2.3.15 Install the LED holder in the front panel.
- 2.3.16 Insert the LED assembly into the LED holder ring.
- 2.3.17 Install the led into the LED holder, then push the LED holder ring onto the LED holder.
- 2.3.18 Attach the front panel with four flush screws.
- 2.3.19 Secure the eject plate with a screw.
- 2.3.20 Wind the metal band around the tension pulley.
- 2.3.21 Insert the guide shafts into the head assembly. Install the tension pullet as shown in figure 8
- 2.3.22 Secure the guide shaft keepers by two screws each.
- 2.3.23 Wind the metal band around the stepper pulley and secure it with a screw to the stepper motor pulley.
- 2.3.24 Hook the spring to the tension pulley and install unit in the slot in the housing assembly.
- 2.3.25 Hook the opposite end of the spring to the housing assembly.
- 2.3.26 Fasten cable ties to the cables.
- 2.3.27 Secure the cable clamp with a screw as shown in FIG 8.
- 2.3.28 Secure the arm support assembly with a screw to the hub support.
- 2.3.29 Insert the hub shaft into the hub, the hub spring, the collet assy, the thrust washer, the collar, the clamp spring and two collars.
- 2.3.30 Insert the hub shaft into the frame and the hub support and fasten it at the E-washer.
- 2.3.31 Set the door assembly and the door spring at the hub frame.
- 2.3.32 Secure the pad plate assembly with a srew to the frame at the location shown in FIG 9
- 2.3.33 Secure the two hinge springs with two srews each.

FIG. 5

Part	Description
18 20 37 41 42 44 50	binder screw binder screw washer spring washer carriage stopper motor control PCB stepping motor assembly

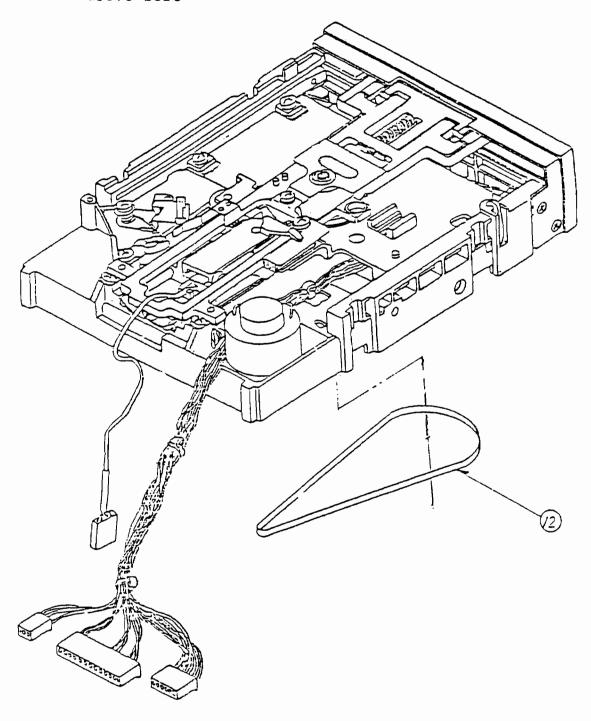


- 2.3.36 Place the belt over the D.C. motor pulley and partially on the spindle pulley.
- 2.3.37 By turning the spindle pulley the rest of the belt will seat completely on the pulley.

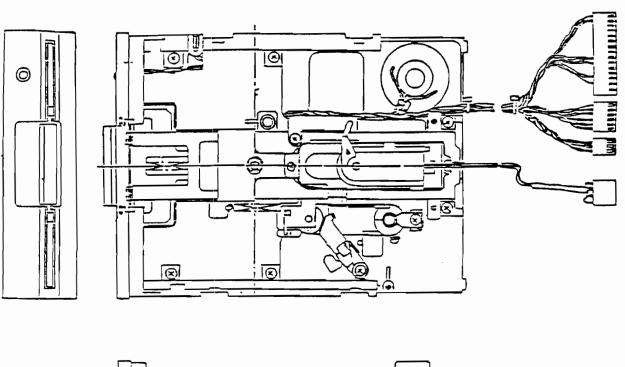
2.3.38 FIG 10

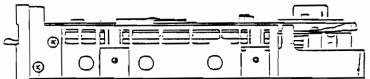
Part Description

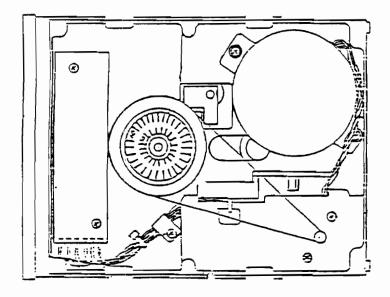
12 drive belt



2.3.39 FIG 11; Completed Drive Mechanism







3.1 Description

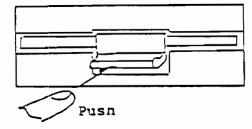
Since the disk drive is placed under direct control of the interface and power supply, no special proceedure is required for starting and operation.

3.2 Operating proceedure

Make sure that the power supply and I/O connector are connected, then insert the disk in accordance with the following proceedure.

3.2.1 Inserting the media

- a) Apply DC voltage to the drive.
- b) Open the front door.



- c) With the index hole and write protect notch being placed on the left side of the jacket, push the media in, when the media is fully inserted the loacking action can be felt.
- d) Push the door downward and close the door so that it is locked firmly

3.2.2 Extracting the media

- a) Open the front door. The media will pop out automatically to a position where you can extract it easily.
- b) For protection of the recorded data, the media should always be stored in its envelope.
- c) Close th door of the drive.

3.3 Media handling proceedure

Since the media has been sudjected to awrite operation i naturally contains imformation, adequate attention must be paid to its handling.

In order to extend the life of the media and eliminate the causes of errors, it is best to take the following steps:

- a) When writing something on the jacket label of the media, do not use a ball point pen or pencil, use felt-tipped pens.
- b) **Do not** hold the edges of the media with paper clips or the like.
- c) Do not touch the media exposed in the slot of the jacket.
- d) Do not attempt to clean the media.
- e) Do not keep the media in the areas where there is a strong magnetic field.
- f) The diskette should be kept in its jacket.
- g) Special care should be exercised so that the media is kept free from liquid, dust, metal particles, etc.
- h) Take care not to exceed the following environmental conditions:

Temperature 10 to 51°C Relative humidity 8 to 80%

3.4 Seek error

Few seek errors will be experienced due to the low stepping rate, less than 12 msec/track. In case of a seek error, however, recalibration of track position can be performed. This can be done by repeatedly stepping the head towards track 0 untill track 0 status is detected.

3.5 Write error

In order to check the quality of the data, perform a read-after-write operation. When data can not be read, rewrite that track and sector once again.

When data can not be read after four such operations track is deferective.

3.6 Read error

What happens quite often when performing a read operation is a soft error. A soft error is defined to be a read error which is recoverable by making ten or less read operations. However, in the event no recovery is made in ten operations, move one step from the track in the same direction as the previous step, then return one step. If this fails to read the data, this error is unrecoverable.

3.7 Description

Periodic maintenance is indispensable so that this type of peripherial equipment operates properly. It is particularly important to periodically clean the head and check the load pad. Repairs and adjustments should be made in accordance with the proceedures below.

3.8 Head Cleaning

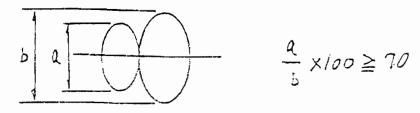
Check for excessive dust or magnetic oxide on the load pad. With the door open (do not move upper arm greater that what is provided by opening the front door) clean head with lint free cotton cloth or 'Q-tip' in 91/ isopropyl alcohol. Wipe the head carefully to remove any dust and/or oxide.

3.9 Adjustment proceedure

In case of a malfuction or parts replacement, make the following adjustments. In order to maintain the interchangability of the media between drives it is desirable check each drive against a master alignment diskette.

3.9.1 Track adjustment (radial track)

- a) Connect I/O cable an restore the head to track 00.
- b) Insert a 48tpi alignment diskette and close the door.
- c) Connect two oscilloscope probes to pin 1 and pin 14 of UH6 (592), set oscilloscope to angbraic add at 50mV/cm and 200 msec/div.
- d) Load the head and allow it to seek to track 16, check for cats eye wave form. When the cats eye lobe ratio is 70/ or less, loosen the stepping motor mounting screws, turn the stepping motor to obtain the lobe ratio of 90/ or less.
- e) After allowing the head to track 34, return it to track 16 and recheck the cats eye. If the ratio is correct tighten the stepping motor screws.



Cats eye lobe ratio

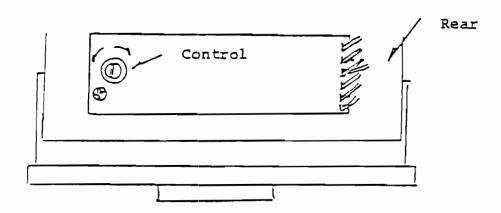
3.9.2 Track 00 adjustment

The drive is not provided with a track 00 sensor. To adjust, let the head over step in the track 00 direction and adjust the limiter postion to obtain a clearance less than $0.25 \, \text{mm}$ (0.01inches).



3.9.3 Speed control

Turn the variable resistor on the motor control board untill the tachometer disk on the spindle pulley appears stationary when viewed with a fluorescent lamp.



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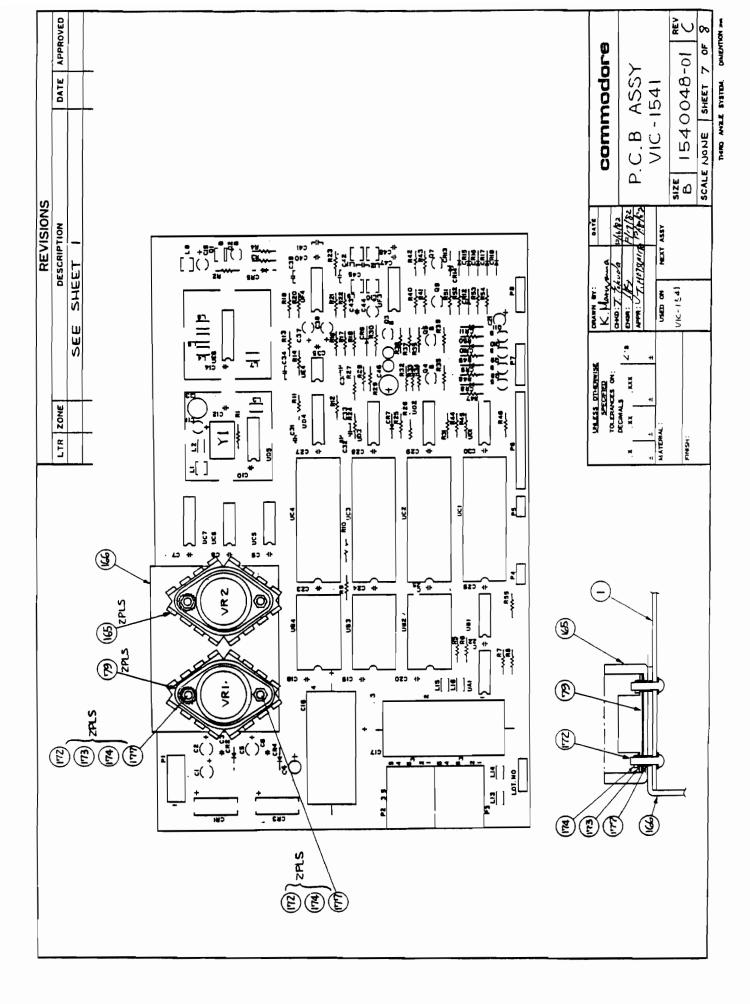
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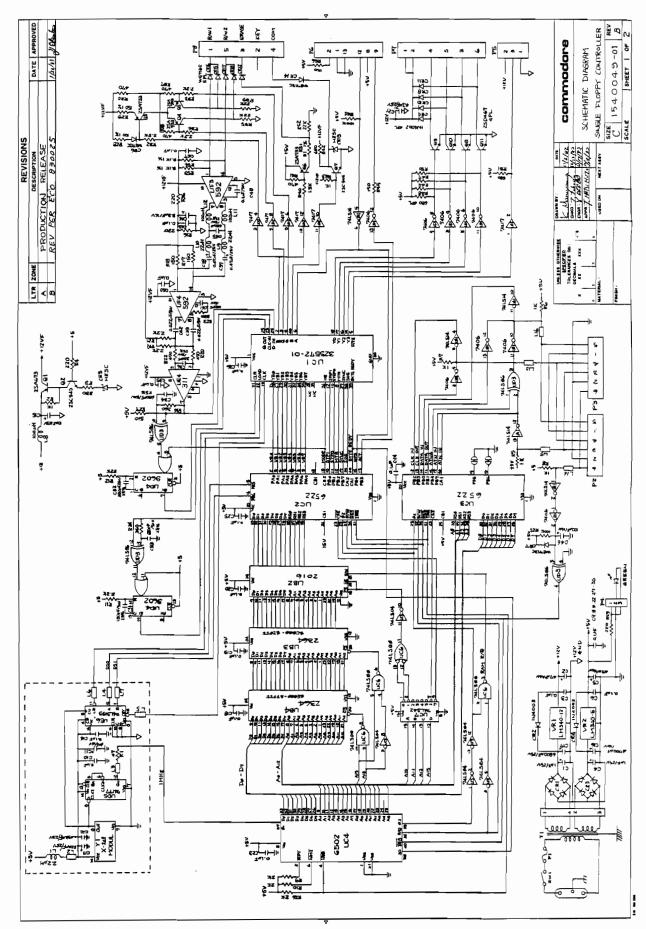
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	OUANTITY PART/	QUANTITY RECO PER PART / DASH NO.	E	ME	8			MOITGIBUSE	3	BEF DES	QN:	BELON	
				D TI	Z Z	<u> </u>					369		
				211 1	B 900301-	40	CAPACITOR FLECT	i.	220 MF/10V	C13			
			F	113	-10/006	45	l		6800 JF 25V	CIG			
				<u>=</u>	- 101006	32			4700 NF/ 16V	O I G			
			<u> </u>	2 115		33			47 MF/16V	C2.C5			
				2 116	001006	-32	ਚ	ELECT.	1/45/ ZSV	C1,C4			
			_	111	- 200000	/5	TA.	TAUTALIUM	10 MF/ 25V	CIS			
				811 /		//	₩ L	TANTALIUM	3.3 F/25V	C44			
			<u> </u>	b11 /	- 010006	-\$2	CE	CERAMIC	150 pf/sov	C31		±5%	
				2 120		- 43			330 PF/50V	C32.C36	\Box	±5%	
				121 €		- 54			Vas/ 4089	C45.C33.C34	¥	15%	
				/ 122		-25			1000F/ SOV	C41			
				24 123		-20			O./wF/80V	C3.6 - 10		14, 10, 19, 20, 22-30, 35, 40, 43, 47, 48	
				2 174	0/0006	-/4	CE	CERAMIC	0.022 F/50V	C39,C42			
				/ 125	001006	- 40	En	ELECT.	100 mF/16V	C46			
			F	921 2	- 200006	11	¥	TANTALIUM	0.47 F/25V	C37,C36			
				/ 127	80-	80			4.7 WF/25V	C21			
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				1 134	B 90/550-56	-	RESISTOR CAR	CARBON 1/4N	U17 75±N4	R			
			<u> </u>	2 135	B 90/550-108	_	RESISTOR CAR	CARBON KW	14W±5% 360A	2 R14, R24			
				4 136		- 86			1500	~			
			-	181 2		- 52			U 022	R4,16,36,55			
				2 138		-/4			3300	R3,R23			
				6 139		- 48			470 n	K20,22,30,51,39	8 4		
		· _	7	/ 140		-38			00/S	KZZ			
				6 41		-3			U089	R31.42.41-50			
				6 142		-01			/ KU	KZ,5,6,7,843	- M		
				3 43		-53			2 kû	R9, 10, 26			
				6 144		8/-			2.2 KD	_	44		
				/ MS		69-			1.5kg	n R40			Allega
			İ	4 146	-	2/-	_		1 22 KD	1 RIZ.35.39.5Z			
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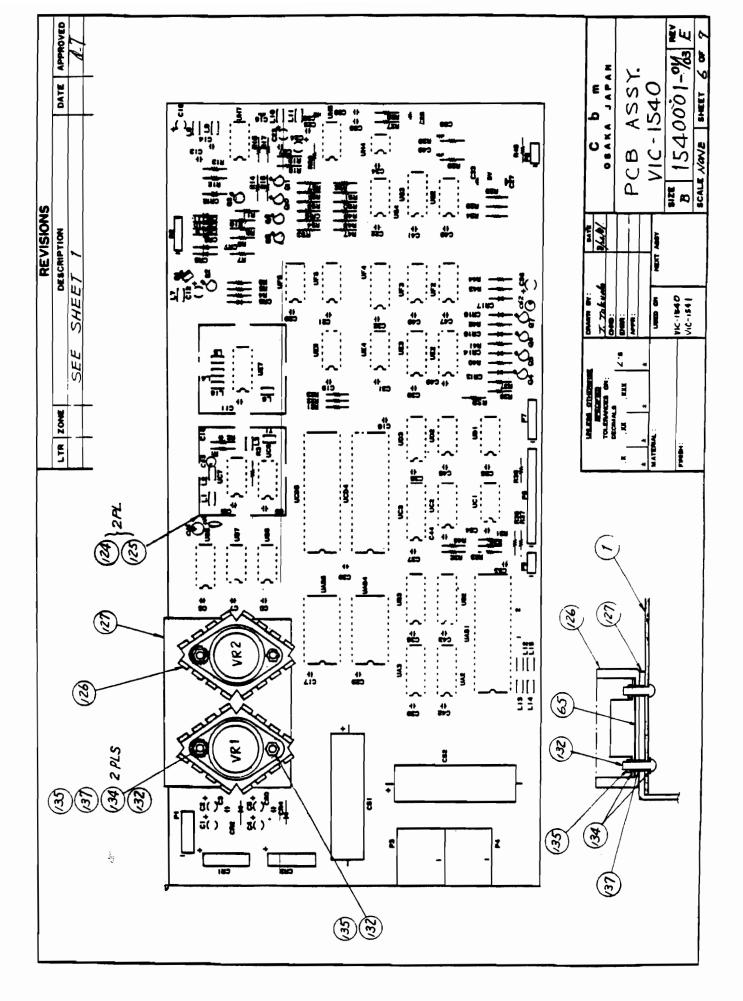
PART NO. DESCRIPTION	A Story PRODUCTION RELEASE
1540001 -01 PCB ASSY VIC-1540 (FCC) UL	FAR FCC)
P R	4
	35/F) REVISED PER ECO 830084 XI
	2 THIS ROM CAN BE USED ON ONLY USA CANADA AND JAPAND VERSION FOR SUBSTITUTE FOR ITEM 35.
	1. SHEET 687 OF 7 ME B-SIZE
	ASSY DWG.
	NOTES.
c b m engiNEERING TITLE. SAKA JAPAN $P \subset P \cap A \subseteq P \cap $	1912 1. 17151 APPR. 17.7 B 152001- 1 or 7

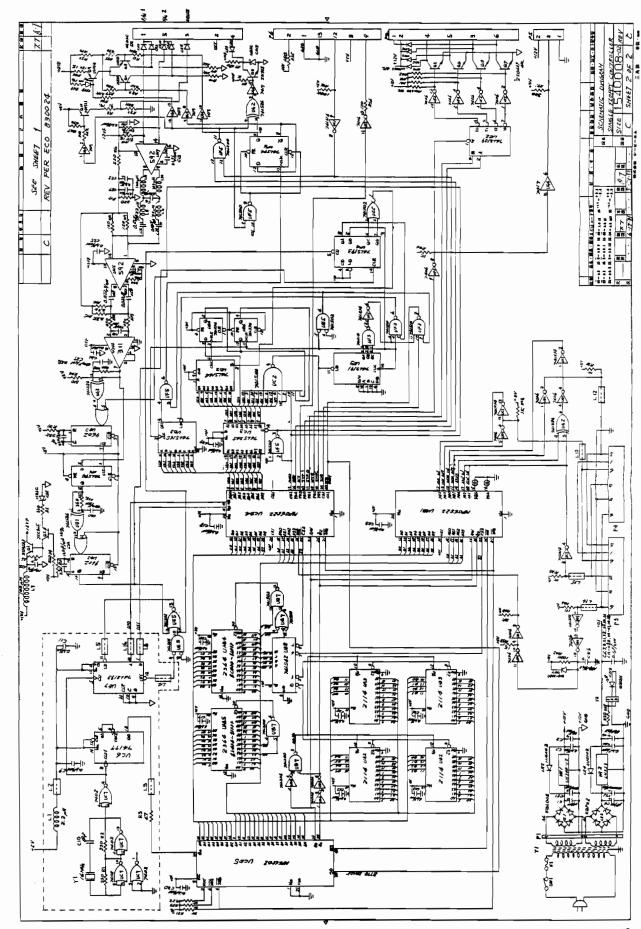
QUANTITY REQD PER PART/DASH NO.	MGL	PART NUMBER	DESCRIPTION		REF. DES	ONGE	NOTES
03,		a					
•	\exists	C 1540007	P.C. BOARD 315×155×166	797×		71W	MTL: 9LASS EPOXY 6-10
	7 7						
	P 4	C 1540008-01	SCHEMATIC DIAGRAM	MK			
	7	B 00/229-03	1C 2364-197	ROH	UABS	\$ 500	SEGOO ~ SEFF
	+	, ·	MPS	CPU	VCDS		
		_1		ROM	UA84	\$ CO	\$ COOO ~ SDFFF
	/ 9	325303-01	2364-131	ROM	UABS	\$ E00	\$ Eddo ~ SFEFF
2	2 10	901437-01	MPS 6522	N/A	UMB1.UCD4		
7	4 //	901471-01	MPS 2114	RAM	UAZ.3.UBZ.3		
2	2 /2	901521-01	746500	2-NAND	U87. UFS		
	/ 1,3	901521-21	741.502	2-NOR	UES		
	1/4	901521-02	741504	////	780		
	51/	901521-24	741510	3-NAND	UF3		
	9/ /	90/521-30	415776	SCH. INV.	UCI		
	11.2	901521-17	744542	DEC.	UB3		
2	2 18	901521-06	741574	D-FF	UE4, UF6		
/	6' /	90/52/-32	7445 86	2-Ex-0R	290		
	05/	90/521-15	7465133	13-NAND	UC 2		
	/ 3/	90/52/-18	7415139	Den. P	UEZ		
	/ 23	901521-28	7415164 86	8 Bit Shift Reg	UDZ		
	ET /	901521-12	7415 165 8	8 Bic State Res	vD3		
,	×r /	901521-40	7415191 4	4 Bil Court.	ve3		
2	2 25	90/521-26	7465 193 4	4 Bit Count.	VE7. UF4		
	7 >6	901521-45	24.5	Bus Insaceiner	<i>UC3</i>		
	7 22	901522-32			UC 7		
2	2 78	90/522-06		/WV. O.C.	UDI. UFZ		
	6د /	901522-03	74177		000		
	130	90.510-01	2098		163		
	<u>ે</u> જ	901523-04	LM311		VH4		
2	دي 2	B 901523-08	NE 592		UHS.UH7		
	_	8 90/522-01	7417		744		
\$	536	8 901521-54	7415197		920	50/85	SUBSTITUTION FOR ITEM 29
N	¥	60	2364-786		//AB5	\$ F Ø	г
α	136	B 90/229-01	IC 2364-173	ROH	UABS	SEDO	SEDDO ~ SFFFF SUB. FOR 1784 6. 2
c b m ENGINEERING	TITLE	0		DRAWN BY: DATE) /	SIZE 1///// A 1
OSAKA JAPAN	<u>\</u>	FCB ASSI	V16-7340 CHKD	CHKD. B. Johne 8 21/8/APPRI	r/APPR:	//	1340001-1081

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1 1 1 20.26.71 170A/S/S 10 K NPN 230.2455 02.03 SUBSTITUTION FOR ITEM 37 2.21 8 90.26.25 1 1 90.26.25 1 1 90.26.25 1 1 1 90.26.25 1 1 1 1 1 1 1 1 1	PART / DASH	Š.	MCBL	.s .	PART NUMBER		ONS
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1		0	_	-	3	NPN 25C/8/5	SUBSTITUTION FOR ITEM 37
1		4				250467	
		5		E	902682	2.50.2120	SUSTITUTION FOR ITEM 39
1		S			902720	25A 673	
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1		S	5 44		901522-30		SUBSTITUTION FOR ITEM 33
1			45				
S		9		_	900250-02	1114002	
1		8		-	900850-05	WG 713 C	
1 49 325505-01 REMER 3.3V STOOMW 15% CAS HZ 4A-1 SUB. FOR ITE 1 20 325505-02 3.3V STOOMW 15% CAS HZ 4A-1 SUB. FOR ITE 1 22 325505-01 REMER 5.1V STOOMW 15% CAS HZ 5.2 SUB. FOR ITE 1 22 325505-01 REMER 5.1V STOOMW 15% CAS HZ 5.2 SUB. FOR ITE 1 23 9009489-11 REMER 5.1V STOOMW 15% CAS HZ 5.2 SUB. FOR ITE 1 23 9009489-11 REMER 5.1V STOOMW 15% CAS HZ 5.2 SUB. FOR ITE 1 24 900755-02 COLL MADICTOR 22.4H		S			900850-01	144/48	SUBSTITUTION
1					325505-01	500mW 15%	H\$3C-2
1 15 15 15 15 15 15 15		S			325505-02	500 MW 15%	
1 52 325506 - 0 1 51 500mW ± 5% CRIZ MX5231 Sub-DR 17 17 52 18 900755 - 2 18 18 17 18 18 900755 - 2 18 18 18 18 18 18 18		S			900 948-06	500MN ±5%	
1 158 1900		`	1 52		325506-01	500 mW ± 5%	
1 55 900756-01 98109E 1.54 50V CR3 KBL-02 1 55 900755-02 DIODE, BRIDGE 44 50V CR3 KBL-02 1 55 9 920556-02 CRYSTAL MAHE Til 1 56 9 3255/3-01 COLL MDUCTOR 224H LB LH 2 56 9 3255/3-02 COLL MDUCTOR 224H LB LH 3 6 8 9255/3-02 COLL MDUCTOR C24H LB LH 4 8 9255/3-02 COLL MDUCTOR C24H LB LH 5 6 9 9255/3-03 COLL MDUCTOR C24H LT LH 6 9 9255/3-03 COLL MDUCTOR C24H LT LH 7 6 8 9255/3-03 COLL MDUCTOR C24H LT LH 7 6 8 900528-04 VOLTAGE REQULATOR SV 3A KR LM 7 6 8 900528-01 MSULATION MYLAR TO-3 SUBSTITUTION CANACITOR CONNECTOR DW 6PW P3.P4 HOSHIDENKI TC.S.4460-01-10 8 9 9 9 9 9 9 9 9 9		S	_		11-826008	500 MW # 5%	
1.55 9.00755-02 0.00E.BRIDGE 4A 50V CR3 KBL-02 1.56 9.02556-02 CRYSTAL 6MHe		` -	/ 32	•	900756-01	5A 50V	
1.57 8 900556-02 CRYSTAL JAMINE TI 1.49 8 3255/3-01 COLL, INDUCTOR 22µH LB, LII 2.60 8 3255/3-02 COLL, INDUCTOR 22µH LB, LII 2.60 8 3255/3-02 COLL, INDUCTOR 22µH LB, LII 3.61 8 3255/3-02 COLL, INDUCTOR COLUH LB, LII 1.63 8 90.528-04 VOLTAGE REQUIATOR SV 3A WR 2 LM340-12 1.64 8 90.528-04 VOLTAGE REQUIATOR SV 3A WR 2 LM340-12 1.64 8 90.4578-04 VOLTAGE REQUIATOR SV 3A WR 2 LM340-12 2.65 9 90.4914 INSULATION SILICONE TO-3 SUBSTITUTION FAR TRH 65. 2.66 9 90.4551-01 INSULATION SILICONE TO-3 SUBSTITUTION FAR TRH 65. 2.66 9 90.4553-03 SOCKET IC LOW PRO, 40.01/N 2.70 9 90.4553-03 SOCKET IC LOW PRO, 24.01/N 3.70 8 90.4553-03 SOCKET IC LOW PRO, 24.01/N 4.66 PC ASSY VIC-/540 COLUM TO-1 RATIO TO-1 4.66 PC ASSY VIC-/540 COLUM TO-1 TO-1 RATIO TO-1 5.66 PC ASSY VIC-/540 COLUM TO-1		` -	1.55		900755-02	4A 50V	K81-02
1 15 8 900556-02 CRYSTAL MH/E			35	-			
1 49 8 3255/3-01 COIL, INDUCTOR 224H L1 L1 L1 L1 L1 L1 L1 L		7	1.57	-	900556-02	I SMH'E	
1.49 8 3255/3-01 COIL, INDUCTOR 224H L8,L11 2.40 8 3255/3-02 COIL, INDUCTOR 224H L8,L11 3.40 8 3255/3-02 COIL, INDUCTOR COUHH L1,L1,L10 4.51 8 3255/3-03 COIL, INDUCTOR COUHH L1,L1,L10 4.51 8 90.528-04 VOLTAGE REQUIATOR 2V 1.54 VR LM323 4.52 8 90.528-07 VOLTAGE REQUIATOR SV 3A VR LM323 5 6 8 90.49/4 INSULATION MYLAR TO-3 SUBSTITUTION FAR TEFULATOR CONNECTOR DIN 6 pin P3,P4 HOSHIDENKI TCS.4460-01-101 5 6 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P3,P4 HOSHIDENKI TCS.4460-01-101 7 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P1,P2 P2,P3 P3,P4 HOSHIDENKI TCS.4460-01-101 7 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P2,P4 HOSHIDENKI TCS.4460-01-101 7 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P2,P4 HOSHIDENKI TCS.4460-01-101 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P2,P4 HOSHIDENKI TCS.4460-01-101 8 90.4153-03 SOCKET IC LOW PRO, 24 Pin P2,P4 HOSHIDENKI TCS.4460-01-101 9 9 9 9 9 9 9 9 9			35				
2 2 60 8 3255/3-02 COIL, MDUCTOR 224H 11.11.110 1 63 8 9255/3-03 COIL, MDUCTOR 1004H 11.11.110 1 63 8 90.528-04 VOLTAGE REGULATOR 12V 1.54 WR? 1 64 8 90.528-04 VOLTAGE REGULATOR 2V 1.54 WR? 2 2 65 8 90.49/4 INSULATION MYLAR TO-3 SUBSTITUTION FAR 17RH 65. 2 2 68 8 90.336/1 CONNECTOR DIN 6 PIN PRO, 40 PIN PRO, 24 PIN P		\ 	1 59		3255/3-01	2.2 wH	
3 3 6 8 325513-03 COIL , INDUCTOR COMH		7	_		3255/3-02	22.4H	
1 63 8 90.528-04 VOLTAGE REGULATOR /2V 1.5A VR LM340-/2 1 64 8 90.528-04 VOLTAGE REGULATOR 5V 3A VR LM323 2 65 8 9 90.49/4 IMSULATION MYLAR TO-3 SUBSTITUTION FAR 17EH 65. 2 66 8 325551-01 IMSULATION MYLAR TO-3 SUBSTITUTION FAR 17EH 65. 3 66 8 325551-01 IMSULATION SILICONE TO-3 SUBSTITUTION FAR 17EH 65. 4 7		3	_		325513-03		01-
1			29	-			
1 44 8 90 15 28 - 01 VOLTAGE REGULATOR SV 3A VR2 1M323 1M3223 1M324710N MYLAR TO-3 ATTACHED WITH VOLT REGULATION MYLAR TO-3 SLESSTITUTION FAR ITEM 65. 2 2 68 B 90 49 50 - 06 SOCKET IC LOW PRO, 40 PIN P3.P4 HOSHIDENKI TCS 4460-01-104 3 3 70 B 90 41 50 - 06 SOCKET IC LOW PRO, 20 PIN P3.P4 HOSHIDENKI TCS 4460-01-104 2 2 71 B 90 41 53 - 03 SOCKET IC LOW PRO, 20 PIN P3.P4 HOSHIDENKI TCS 4460-01-104 2 2 71 B 90 41 53 - 03 SOCKET IC LOW PRO, 20 PIN P3.P4		<u> </u>	1 63		901528-04	121 1.54	LM340-12
2 2 66 B 9049/4 INSULATION MYLAR TO-3 SLESSTITUTION FAR ITEM 65. 2 2 68 B 90336/ CONNECTOR DIN 6PIN P3.P4 HOSHIDENKI TCS4460-01-101 2 2 1/2 B 904/50-06 SOCKET IC LOW PRO, 40PIN 2 2 1/2 B 904/53-03 SOCKET IC LOW PRO, 24PIN TITLE FINANCE IN PRODUCT ITEM 1 PORT 1		`	1 64		901528-01	5V 3A	LM323
2 2 68 B 903361 CONNECTOR DIN 6PIN P3.P4 HOSHIDENKI TCS4460-01-101 2 2 68 B 904/50-06 SOCKET IC LOW PRO, 40PIN 2 2 2 7/ B 904/53-03 SOCKET IC LOW PRO, 24 PIN 2 2 7/ B 904/53-03 SOCKET IC LOW PRO, 24 PIN 3 3 70 B 904/53-04 SOCKET IC LOW PRO, 24 PIN 4 3APAN PC B ASSY VIC-/540 CHORT FILE FILE FILE FILE FILE FILE FILE FILE		7		_	904914	70	
2 2 68 B 903361 CONNECTOR, DIN 6PIN P3.P4 HOSHIDENKI TCS4460-01-10 3 3 70 B 904/50-06 SOCKET IC LOW PRO, 40PIN SATE SOCKET IC LOW PRO, 24 PIN		S			1	WE	SUBSTITUTION FAR ITEH 65.
2 2 2 68 B 903361 CONVECTOR, DIN 6PIN PR3, P4 HOSHIDENKI TCS4460-01-101 3 3 70 B 904/50-06 SOCKET IC LOW PR0, 40PIN 2 2 7/ B 904/53-03 SOCKET IC LOW PR0, 24 PIN ENGINEERING PCB ASSY VIC-/540 CHOT TILL FLUEL BATE BIZE ENGINEERING PCB ASSY VIC-/540			67				-
3 3 70 B 904/50-06 SOCKET IC LOW PRO, 40PIN 2 2 7/ B 904/53-03 SOCKET IC LOW PRO, 24 PIN ENGINEERING PCB ASSY VIC-/540 CLOW PRO, 40PIN DATE 812E 1		2			903361	6 PIN	HOSHIDENKI TCS 4460-01-101
ENGINEERING PCB ASSY V/C-/540 2 2 7/ B 904/53-03 SOCKET 1C LOW PRO, 24 P/N FINALE: DRAWN W. DAYE BIZE DRAWN W. DAYE BIZE 1 5 4 00 01-		+		_	004150	- 1	
ENGINEERING PCB ASSY VIC-/540 CHECK TILL FLOOR STATE BUZE 1540001-		+		_	404/30-00	IC LUM PKU.	
ENGINEERING TITLE: PCB ASSY VIC-/540 CHANGE TITLE: BATE BATE 1 B 1540001-		N	_	_	404133-03	IC LOW PRO.	
PCB ASSY V/C-/540	1	VOINEERING	E	ا و		DRAWN BY:	9/2/6
	2	NAPAN	_	$\mathcal{P}_{\mathcal{C}}$	B ASSY		/540001-

1.23 3.255/6.04 HEADER ASSY 2.5 DICH RANG APW P2	QUANTI	QUANTITY REGO PER	PER	-								
1	PART /D	ASH NO		,			DESC	RIPTION	REF. DES	00.39	NOTES	
1.23 3.255/4.04 HEADER ASY 2.5 DICH RANG 4WY PT 1.24 3.255/5.06			24 03-4	õ	\dashv	_						
1		_	//	1 2	_	_	ASSY	RANG.	P2			
1 25 325/5-03				,	-	_		•	P7		3094-06A	
1		-	E	,	Ţ	325515-15		VSPIN	<i>P</i> 6		3094-15A	
1 172 8 9033/6-04 JEADER ASS) 308 PICH A PIN PI HOLEX 180 9 900/100-03 CAP, EIECTROLYTIC 10000JuE 16V CSS AKIAL LEAD 180 9 900/100-33 EIECTROLYTIC 1ME 25V CSS AKIAL LEAD 180 900/100-33 EIECTROLYTIC 1ME 25V CSS AKIAL LEAD 180 900/100-33 EIECTROLYTIC 1ME 25V CSS AKIAL LEAD 180 900/100-33 EIECTROLYTIC ATALE ASV CCS AKIAL LEAD 180 900/100-33 EIECTROLYTIC ATALE ASV CCS AKIAL LEAD 180 900/100-32 AMERICAN CMC CCS AKIAL LEAD 180 900/100-34 AMERICAN CMC CCS AKIAL CCS AKIA			1	-	_	375515	2	1.	P5.P9		3094-03A	
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1 186 9000402-11 TANTALUM 3.3.MF 25V C23 1 186 900010-54 CERAMIC 68PE 50V C39 ± 5% 2 2 187 900010-54 580PE 50V C33 ± 5% 3 3 900010-54 580PE 50V C34 ± 5% 1 1 1 1 1 1 1 1 1 1		_		8	A	900402-15	TANTALIUA		C/2			
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1 190 900010-34 1000PF 50V C46, C77, C46 15% 1 190 900010-25 1000PF 50V C78 12, 34 - 46, 34 2 2 2 900010-20 1 CERAMIC 0.012 F 50V C36 12, 34 - 46, 34 1 2 2 9000402-77 CAP TANTALIUM 0.47 F 50V C45 1 2 2 3 900402-77 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900402-77 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900402-77 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900402-78 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900405-08 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900405-08 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900405-08 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900405-08 CAP TANTALIUM 0.47 F 50V C45 1 2 3 900405-08 CAP TANTALIUM 0.033 F 50V C45 2 2 2 3 900405-08 CAP TANTALIUM 0.47 F 50V C45 3 4 4 4 4 4 4 4 4 4			7		8	9000/0-53		330PF 50V	C28, C49		± 5%	
1 1 90 9000 10 - 25 1 1 1 1 1 1 1 1 1			ď		8	900010-54		680PF 50V	C/6, CZ7, CSD		+5%	
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2 2 92 900010-14 CERAMIC 0.022 #F 50V CS\$ 656 9 1 1 23 1 900100-40 1 ELECTROLYTIC 100 #F 6 V CS\$ 656 9 2 2 24 8 900402-17 CAP TANTALIUM 0.47 #F 6 V CS\$ 656 9 1 1 25 8 900402-14 CAP TANTALIUM 4.7 #F 70 V CS\$ 656 9 1 1 25 8 900452-08 CAP TANTALIUM 4.7 #F 70 V CS\$ 656 9 2 2 2 2 8 900455-02 CAP CEAHIC 0.033 #F 50 V CS\$ 656 9 2 2 2 2 8 900550-36 RESISTOR CARBON WW.5\$ 3501 RS, R30 RS, R3			40	600	~				1.4.1.19.14.1		18,29-32,34-48,53-65,67,60,61	
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2 2 42 8 9 000402 - /7 CAP. TANTALIUM 0.47µE 16V CCS. # ± 20% 1 95 B 900402 - 08 CAP. TANTALIUM 4.7µF25V CG2 1 95 B 900465 - 02 CAP. CARAHIC 0.033µF25V CG3 2 2 8 8 90 /550 - 08 RESISTOR, CARBON ¼W 5\$ 360.1 Ref. R30 4 4 200 B 90 /550 - 89 RESISTOR, CARBON ¼W 5\$ 360.1 Ref. R30 4 4 200 B 90 /550 - 89 RESISTOR, CARBON ¼W 5\$ 360.1 Ref. R30 5 5 202 POLSSO - 30 POL			/	0	3	00-00/006	_		C5 6			
1 95 B 900402-08 CAP. TANTALIUH			7			900402-			CAS, CZA		± 20%	
1 1 1 1 1 1 1 1 1 1			-	_		_	1 1		29 2			
1 1 97 18 900465 - 02 CAP. CERAHIC 0.033 \text{inff} \ 2 2 98 8 90 \ \text{inff} \ 90 \ \text{inff} \ 2 2 98 8 90 \ \text{inff} \ 90 \ \text{inff} \ 3000 \ \text{inff} \ \text{inff} \ 4 \ \text{inf} \ \text{inff} \ inf			`	1 6		900402		1/m//0 V	C.63:			
2 2 98 8 90/550-08 RES/STOR, CARBON 4W 5% 3600 Res, R30 4 4 100 B 90/550-56 RES/STOR, CARBON 4W 5% 470 R3 4 4 100 B 90/550-89 RES/STOR, CARBON 4W 5% 1500 Res, R306 5 4 100 B 90/550-32 R300 R1, R3, 30, 37 5 5 102 90/550-38 S100 R1, R3, 39, 44, 27 6 6 103 90/550-31 S100 R1, R3, 39, 44, 27 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			7	10			CAP. CERAHIC	0.033 FF 25 V	C64			
1 1 99 8 90 550 - 56 RESISTOR, CARBON 4W 5% 470 Ra.m.35.36 Ra			2		-		4	1 KW 5% 3	R26, K30			
4 4 4 00 8 90/550-89 RESISTOR, CARBON WW.5% 1501 Res. n. 3.36 5 5 02 90/550-32 6 6 03 90/550-38 7 1 03 90/550-38 8 00/550-38 9 00/550-38 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				6 /	-			14W 5%	Ę			
# 4 401 901550-52 2000 R4,6.17.45 3300 R1,5.20.37			4	4	_			4W 5%	R18.19.35.36			
5 5 02 90.550-4 3700 R1z.5.20.37			×	_	1/6	901550-52			R4,16.17.45			
6 6 43 901550-38			'n		12	401550-14		3300	RI.E, 5.20,37			
1 1 1 1 20 90 550 - 36 5100 R24 5800 R9 R92 R9			9		23	901550-58		4700	RZT, ZZ, 47, 50, 55, 57			
S S 90/550-31 6800 R9,R92 1 KA R1, IJ-34,4457 1 KA R2,II,31-4,4457 1 KA R2,II,31-34,4457 1 KA R2,II,31-34,457 1 KA R3,II,31-34,457 1 K			_	-	×	90,550-38		510A	K24			
8 8 90/550-01 1 KA Rev. 1.91-34,44.57 2 KA Rev. 1.91-34,44.57 2 KA Rev. 1.91-82, 1.98 4 4 107 90/550-53 1 2 KA Rev. 1.91 2 KA Rev. 1.			2	_	25	90/550-31		0089	R9. K39-R42			
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1 1/20 9 90.1550-69 RESISTOR, CARBON KW 5% 1.5km And 1/20 9 90.1550-69 RESISTOR, CARBON KW 5% 1.5km And 1/20 9 90.1550-69 RESISTOR, CARBON KW 5% 1.0km And 1/20 9 90.1550-62 RESISTOR, CARBON KW 5% 1.0km And 1/20 9 90.1550-62 RESISTOR, CARBON KW 5% 1.0km And 1/20 9 90.1551-48 RESISTOR, ARTHOLOGYE KW 18, COLO And 1/20 9 90.1551-48 RESISTOR, ARTHOLOGYE KW 18, COLO And 1/20 9 90.1551-48 RESISTOR, ARTHOLOGYE KW 18, COLO And 1/20 9 90.1551-48 RESISTOR, ARTHOLOGYE KW 18, COLO And 1/20 9 90.1551-48 RESISTOR, ARTHOLOGYE KW 18, COLO And 1/20 9 90.1551-60 And 1/20 9 90.1551-60 And 1/20 9 90.1551-60 And 1/20 9 90.1551-60 And 1/20 9 9 9 9 9 9 9 9 9	QUANTITY REGD PER PART/DASH NO.			DESCRIPTION		
1 1/20 2 901550-69 KESSTOR, CARBON KW SK, 15840 MAN	120-E0-190	u .	a			
1 4 10 6 90.6550-07 RESISTOR, LARBON WAS \$\$ 10000000000000000000000000000000000		601	┞-		848	
2 2 111 8 90.550-07 RESISTOR.CARBON KWY SK 100K2 RY MAY 1 1.04 8 90.751-43 RESISTOR.WITH.CONDE KWY KY 0.0 1 1.04 8 90.751-45 RESISTOR.WITH.CONDE KWY KY 0.0 1 1.04 8 90.751-45 RESISTOR.WITH.CONDE KWY KY 0.0 1 1.04 8 90.751-45 RESISTOR.WITH.CONDE KWY KY 0.0 1 2.04 8 90.751-02 CONDENCY CONDE KWY KY 0.0 1 3.04 8 90.751-02 CONDE WY WY 16AD MIXXO 1 4 4.25 8 90.551-02 CONDE WY WY 16AD MIXXO 1 4 4.25 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 8 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 90.551-02 CONDE WY 16AD MIXXO 1 5.04 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		0//	_	22KA	7,10,29,53	
1 12 8 20.7.57-43 RES.S.TOP.ANETAL.ONDE & W.I.K. GOD. Art 1 12 8 20.7.57-43 RES.S.TOP.ANETAL.ONDE & W.I.K. GOD. Art 1 12 226 8 20.7.57-84 RES.S.TOP.ANETAL.ONDE & W.I.K. GOD. Art 2 226 8 20.7.57-45 RES.S.TOP.ANETAL.O.NDE & W.I.K. GOD. Art 3 22 226 8 20.7.57-45 RES.S.TOP.ANETAL.O.NDE & W.I.K. GOD. Art 4 22 226 8 20.7.57-45 RES.S.TOP.ANETAL.O.NDE & W.I.K. GOD. Art 5 22 22 22 22 22 22 2		///	90,550-0	RESISTOR. CARBON 1/2W 5% 100KA	AKS, REG	
1 14.2 8 90.725-43 RES. ISTOR, METAL ONDE KWI K. 100.0	_	2//	_			
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4 4 437 B 905477-02 7UBE VINYL #35x L 5am 238 238 240 240 240 240 240 240 240 240 240 240		35	_	NUT HEX. M3		
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ENGINEERING TITLE: 145		143				
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ENGINEERING TITLE: $PCBASSYVIC-1540$ CHACS $\sqrt{h_{AAA}}/8/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2$		\$				
JAPAN TOB 1331 110-1340 (CHALS 8/1/10/APPEN) 1/ B 1340011- 30		TITLE	a J	110 1500		1000VJ/ 3zis
		_	Q	770-1340	APPR:	1340001- 50





A Poly PRODUCTION KELEASE 67	W 0 0 W L	JUL H	4. NO CHANGE RÎY FOR ITEM SA IF USED ITEM 6 OR 7. 3. USE ONLY WHEN USED ITEMB OR 9.	2. IF ITEM B OR 9 ARE USED THEN GIY FOR ITEM 54 WILL CHANGE FROM 7 TO 9 PCS AND USED WITH ITEM 63. 1. SHEET 4 € 5 OF 5 ARE D-SIZE ASSY DWG. NOTES.	
DESCRIPTION	POWER SUPPLY ASSY VIC-1546 UL	VIC-1541			DANE CHEF. V. 11 VILLE AND
PART NO.	1540002 -01 P	90-			C b m ENGINEERING

	CUIANTITY BEOD PER						
	PART / DASH NO.	ME	·S ·	PART NUMBER	DESCRIPTION	REF. DES	NOTES
	10/20/20/106/05/05/03/03/03/03						
L	S	_	Q.	1540012	POWER . CHASSIS		SUBSTITUTE FOR ITEM 2, SEE NOTE 2
		2	a	251153	POWER CHASSIS		SEE NOTE 3
			S	_ _			
			7	_	ASSY		
	V	9	Š	1240001	PCB ASSY (FCC) UL		SUBSTITUTE FOR ITEM B.
		7		1540001 -04	PCB ASST		SUBSTITUTE ROR ITEM 9
	-	8	80	1540048 - 01	PCB ASST (FCC) UL		
		0)	80	1540048-02			USED LOGIC ARRAY
		10					
		-					
	S	512	B	325519 - 01	FLOPPY DISK (BLACK)		SUBSTITUTE FOR ITEM 13
	<u> </u>	113	8	325519 - 02	DISK		
	_	114	8	903614 -01	FUSE HOLDER FH 032		
		15					
		16	8	903615 -01	FUSE HOLDER FH 033		
		17					
		18					
	-	<u>-</u>	8	904509 -01	SWITCH , ROCKER	S W 1	
	S	\$ 21	æ	325552-01	FILTER POWER CONNECTOR		SUBSTITUTE FOR ITEM 23 (TOKIN)
		22	e e				SUBSTITUTE FOR ITEM 23
		8	<u>~1</u>				
		24					SUBSTITUTE FOR ITEY 23 (HAMI PA-126)
-	-	125	W.	903467 -03	FILTER POWER CONNECTOR		
		K					5.2 x 20 mm
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